A mesostructured material, which has plural tubular mesopores and is arranged on a polymer surface, characterized in that the mesopores are oriented in one direction parallel to the surface. The mesostructured material is developed to functional devices.

## **IN THE CLAIMS**:

Please amend claims 1, 3, 7, 8, 13 and 48-52 as follows. A marked-up copy of the claims is attached.

1. (Amended) A mesostructured material having tubular mesopores, the mesostructured material being arranged on a polymeric surface constituted of a polymeric compound, wherein the tubular mesopores are oriented towards a first direction parallel to the surface and the polymeric surface has been subjected to an alignment control treatment.

3. (Amended) The mesostructured material according to claim 1 or 2, wherein polymer chains of the polymeric compound on the polymeric surface are oriented in a second direction.

7. (Amended) The mesostructured material according to claim 1, wherein the polymeric surface has been jubbed.

8. (Amended) The mesostructured material according to claim 7, wherein the polymeric surface has been rubbed in the first direction.

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surface, in which chains of the polymer material are oriented in a first direction parallel to the polymer material surface, having tubular mesopores, wherein the tubular mesopores are oriented in a second direction nearly perpendicular to the first direction, and the oriented tubular mesopores are formed on the polymer material surface by locating silica outside of an oriented surfactant micelle structure of which orientation is determined by parallel accommodation of molecules of the surfactant on the chains of the polymer material through chemical interaction.

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48. (Amended) A mesostructured material having tubular mesopores, the mesostructured material being arranged on a polymeric surface, wherein the tubular mesopores are oriented in a direction parallel to the surface, and the direction is determined by a direction of a rubbing treatment of the polymeric surface.

49. (Amended) The mesostructured material according to claim 48, wherein the rubbing direction is identical to the direction of the tubular mesopores.

50. (Amended) A mesostructured material having tubular mesopores, the mesostructured material being arranged on a polymeric surface constituted of a polymeric compound, wherein the tubular mesopores are oriented in a direction parallel to the surface, and the direction is determined by an orientation direction of the polymeric compound's polymer chain.

51. (Amended) The mesostructured material according to claim 50, wherein the direction of the polymer chains' orientation and the direction of the tubular mesopores are different from each other.